Approved For Release 2001/04/04: CIA-RDP33-02415A000400350015-2

25X1A 5. JUN 1958

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: Chief of Station,

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- perstland/Personal Equipment

- Comments on 1693

25X1A

BER A: BARC 86569 NEF B:

The following communits, related by paragraph to Ref B, are presented in an effort to clarify report SAPC 26569. Actions outlined in REF A are resultant from an appropriation of incident and unsatisfactory reports, present as well as entiripated requirements and R & D efforts forwarded to beedquarters from project detachments, FOG and other sources credited by the project. Reports relative to contents as in REF A will continue to be distributed to project deteciments in confidence that questions, rebuttals and contributions, as aptly presented in REF B, will lead to improved continuent and procedures.

- a. The ejection sent modification is such as to facilitate exchange between ejection and standard seats in every aircraft. In addition to test, proficiency and training flights, the ejection part will be installed for fermying flights as well. However, it is not to be installed for flights involving actual penetrutions. This is due to the weight penalty of 33 lbs. resulting in a significant reduction of altitude.
- a.(1) We are in complete agreement relative to the desirability of incorporating an auto wind and look inertia real type mechanism on the ejection seat. The physiological hezards pointed out in your report had previously been discussed with the U. S. Mavy having used the seat for exponetion without reported injury due to lack of this device (they use the face curtain trigger mechanism) and the FOG at Del Rio AFB having this seat but without ejection experience. Both groups reflect apathy in the inertia smal, insisting that the two second delay from time of delta ring mulpuletion to setual firing to be an adequate span permitting the pilot to assume ejection position. We disagree that the pilot will be capable of assuming the ejection position under stress environment and further choose not to wely on the pilot's mesory to lock the shoulder harness in time of duress propagatory to forced landing. He had requested LAC to devise an automatic

Approved For Release 2001/04/04: CIA-RDP33-02415A000400350015-2

25X1A

Page 2 of 4 pages

wested and lock - plus impact lock mechanism for project seats. Though this device may not be developed in time for seat accepting prior to seat hit distribution, we may look forward to it's eventual availability.

a.(2)(3) The dimensions of the new seat pan is distated by the size of the mest peak well in the ejection sent. Unfortunately due to the dimension of the cockpit, only the smallest of ejection seats could be adapted to the aircraft. The decision to modify all seat packs to the small configuration though the old sest will continue to be utilized on penetrotion missions was board in the light of two eignificant factors. Standardimedica is only second in importance. In complicantion of the componentive Statigue factor inherent in the 1-13 sent as compared to the relative confort gratient of the standard U-2 seet, it is essential to consider the contour fitted well pedded ourfood of the U-2 seat pack as against the bard single planed surface of the seat type paraclaste which the pilot contacts. It now because apparent that we are comparing wallike items. Macussians pursued by developmental personnel resulted in the assumption that a 2-33 street ment pen contoured to the U-R menting purface and adoquately pedded with a medium density from pad overlapping the frontal edge would provide occitart comparable to that provided by the old type sent pun-

As cutlined in Eq report HEF A paragraph 5, the first modified scat pass assigned to PCC did not meet with predicted confort criteria. Specific discombert factors reported were not referenced to the elimination of 12 of non-contact surfaces on each fide of the new pas. The samufacturer has been informed of the shortcomings of the new pas and action to remoty is undersor. The first new pass to be accepted by the project will be ensigned to MEEF IV. The efforts of the physiologist and pilots of that organisation will be joined to improve confort and other espects of the seat assembly. Their recommendations will be incorporated in the cent pass that are destined for field semignment so as to provide your pilots with the ultimate in parametric and general desirabilities. In consideration of the infrequent enhancements resulting from R & D efforts that do not fully satisfy objectives, the manufacturer has been informed to return to the depot old ment pass made obsolete by the ejection seat undiffication. These pans will be available to pilots who have objectively attempted to accept the new sent pass yet find it unacceptable for paretration flights.

b-(1) Sementic descrings previously scinnitted to Eq in regards to redestign of sirepair and sent pack cayges components to provide emergency measures have not been ecomptable. Present system "weak spots" and pilots' desires (virtually as you have cutlined) have been growided to LAC to assist them in effecting redestign. AC has indicated that they presently have a design that will undoubtedly most with the approach of everyone concerned. They have been eshed to forward; botos and specifications of the improved system to Eq. These will be distributed to you for consents and suggestions prior to final action by Eq.

Approved For Release 2001/04/04 : CIA-RDP33-02415A000400350015-2

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Page 3 of 4 pages

evallable from the depot at your request on or about 18 June 1978. A new stock number will differentiate between the 16 and 22 inch homes. Both types are to be maintained on depot inventory.

- b.(3) The new design for the breathing and capetan hose couplings will be forwarded to you vie courier. In addition we would like to forward a prototype connector as soon as one is made available to us. It has been proves on repeated book up performances at FOG that the male connector can be connected so that the lock wins ride on the flat surface of the female economicar lock pin groove. In the event, the safety clip can be installed without offering security of connection. Also, due to the bevoled shoulder of the male connector, (forward of lowerled section) it is possible to disassemble a properly made connection with the safety clip in position due to the clip riding up the shoulder bevel. In an effort to eliminate potential instructions disconnect, the reducioned male connector will have a 90° shoulder and a spring of increased tension. The female connector will be without the flat curface in the look pin groove. It is reasonable to assume that the present assignment of high caliber P. E. techs in the project magnite the possibility of a malconnection. However, this equipment is found to have application in organizations outside the project me the impossible frequently occurs. Our endeavors are to reduce the complexity of book up and increase the reliability of this equipment.
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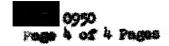
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- scribed test on testing devices. Realising the obvious immisgracy of previous prescribed tests alone, items outlined in PSF A, paragraph 10, Percommunications 1-3 were added to sugment our present proceedures.
 - glame shield were not discontinuted to the field hence has deplication of efforts. Our attempts with rigid plastic for glare shields you'd the problems of difficult belast mounting and a certain degree of visual discontinutes of the shield not conforming to the face piece curvature. The testice has to the shield not conforming to the face piece curvature. The cohesive non-rigid timbed plastic forwarded to you in burch seemed to solve to the problems and still provide adaptate glare protection. The manufacture recommended application method is to minutes the plastic. (Discours, the manufacture determined that it adheres equally well when dry and can be mounted as manufacture determined that it adheres equally well when dry and can be mounted to preserved during flight et pilot's discretion.)

Approved For Release 2001/04/04 : CIA-RDP33-02415A000400350015-2

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25X1A

6. Mesessary information to procure the new type flying boot is is custom made and requires foot being secured. This boot The menufacturer has been requested to furnish presents and cutline. foot sizing order forms. These will be distributed to you.

25X1A

- 1. D/MAT. informs that two portable type cockpit air conditioners have been purchased for your organization. These are presently at we are confident that you will receive those items within a 30-day period. It appears from Ref i. that an air conditioned pilot transfer vehicle would be of limited value to your pilots. After study of the pilot transfer vehicle photographs and specifications forwarded to you recently, and in anticipation of cockpit eir conditioners, Hes would like to know if you still anticipate a requirement for the vehicle.
- J. Insident reports as well as a long history of flight feeding orifice leakage led to the permanent scaling of this facility. Project as well as Air Force requirements for an acceptable flight feeding design remain unfalfilled. This is we has been discussed with Gen. Flickinger of Hos AND who has offered his assistance. Any designs, recommendations or information that you may have could be relayed to him for consideration in forthecoting attempts.

CIMED

Director of Operations

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IPS/DCI/RJT:bhb

Mstribution:

1 & 2 - Addressee

3 - Gen Flickinger

4 - SA/PD/DCI

5 - Dep Mir, DPS/DCI v 6 - RI

7 - Ops Subj File

8 - Ops Chron